AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A measuring apparatus comprising:

quasi-electrostatic field generating means for generating a quasi-electrostatic field of higher field strength as compared with a radiated electric field and an induced electromagnetic field, said quasi-electrostatic field being applied to an object to be measured;

quasi-electrostatic field detecting means for detecting a result of interaction between said quasi-electrostatic field ~~generated by said quasi-electrostatic field generating means and applied to an object to be measured,~~ and an electric field corresponding to a potential change caused by a dynamic reaction inside said object ~~to be measured~~; and

extracting means for extracting said potential change from said result of interaction ~~detected by said quasi-electrostatic field detecting means~~.

2. (Currently Amended) The measuring apparatus according to claim 1, wherein:

said object to be measured is a living body; and

~~said quasi-electrostatic field detecting means detects said result of interaction with said electric field corresponding to said potential change caused by~~ said dynamic reaction is a biological reaction ~~inside said living body~~.

3. (Currently Amended) The measuring apparatus according to claim 1, wherein

said quasi-electrostatic field generating means generates [[said]] a plurality of quasi-electrostatic fields of [[said]] higher field strength as compared with said induced electromagnetic field, at ~~each of said~~ a plurality of distances respectively corresponding to [[said]] a plurality of frequencies.

4. (Currently Amended) The measuring apparatus according to claim 1, wherein

said quasi-electrostatic field generating means generates [[said]] a plurality of quasi-electrostatic fields of [[said]] higher field strength as compared with said induced electromagnetic field, in a time division manner ~~for each of said distances~~ at ~~each of said~~ a plurality of distances respectively corresponding to [[said]] a plurality of frequencies.

5. (Currently Amended) The measuring apparatus according to claim 3, wherein said quasi-electrostatic field generating means comprises output adjusting means for:

adjusting ~~outputs of each voltage~~ a plurality of voltages output to a predetermined electrode, so as to adjust a field strength of each of said quasi-electrostatic fields to a predetermined field strength, said plurality of voltages corresponding to ~~each of~~ said frequencies ~~to a predetermined electrode, to make the strength of each of said quasi-electrostatic fields generated at each of said distances respectively corresponding to each of the frequencies become a predetermined field strength~~, and

outputting a combined result of each of said voltages after [[the]] said adjustment.

6. (Currently Amended) The measuring apparatus according to claim 4, wherein

said quasi-electrostatic field generating means comprises output adjusting means for adjusting ~~outputs of each voltage~~ a plurality of voltages output to a predetermined electrode, so as to adjust a field strength of each of said quasi-electrostatic fields to a predetermined field strength, said plurality of voltages corresponding to ~~each of~~ said frequencies ~~to a predetermined electrode, to make the strength of each of said quasi-electrostatic fields generated at each of said distances respectively corresponding to each of the frequencies become a predetermined field strength~~.

7. (Currently Amended) The measuring apparatus according to claim 1, wherein:

said quasi-electrostatic field generating means comprises a first pair of electrodes for ~~generation~~ generating said quasi-electrostatic field ~~fields~~;

said quasi-electrostatic field detecting means comprises a second pair of electrodes for ~~detection~~ detecting said result of interaction; and

said first pair of electrodes ~~for generation~~ and said second pair of electrodes ~~for detection~~ are formed into a unit electrode and a plurality of said unit electrodes are formed on [[the]] a same surface.

8. (Currently Amended) A measuring method comprising:

~~a quasi-electrostatic field generating step~~ generating a quasi-electrostatic field of higher field strength as compared with a radiated electric field and an induced electromagnetic field, and applying said quasi-electrostatic field to an object to be measured;

~~a quasi-electrostatic field detecting step~~ detecting a result of interaction between said quasi-electrostatic field ~~generated in said quasi-electrostatic field generating step and applied to an object to be measured,~~ and an electric field corresponding to a potential change caused by a dynamic reaction inside said object ~~to be measured~~; and

~~an extracting step~~ extracting said potential change from said result of interaction ~~detected in said quasi-electrostatic field detecting step~~.

9. (Currently Amended) The measuring method according to claim 8, wherein:

said object to be measured is a living body, and

~~wherein said result of interaction with said electric field corresponding to said potential change caused by~~ said dynamic reaction is a biological reaction ~~inside said living body is detected in said quasi-electrostatic field detecting step~~.

10. (Currently Amended) The measuring method according to claim 8, wherein

[[said]] a plurality of quasi-electrostatic fields of [[said]] higher field strength as compared with said induced electromagnetic field are generated at ~~each of said~~ a plurality of distances respectively corresponding to a plurality of [[said]] frequencies ~~are generated in said quasi-electrostatic field generating step~~.

11. (Currently Amended) The measuring method according to claim 8, wherein

[[said]] a plurality of quasi-electrostatic fields of [[said]] higher field strength as compared with said induced electromagnetic field are generated in time division manner ~~for each of said distances~~ at ~~each of said~~ a

plurality of distances respectively corresponding to a plurality of [[said]] frequencies ~~in said quasi-electrostatic field generating step~~.

12. (Currently Amended) The measuring method according to claim 10, wherein generating said quasi-electrostatic fields ~~field generating step~~ comprises:

~~output adjusting step~~ adjusting ~~outputs of each voltage~~ a plurality of voltages output to a predetermined electrode, so as to adjust a field strength of each of said quasi-electrostatic fields to a predetermined field strength, said plurality of voltages corresponding to ~~each of~~ said frequencies ~~to a predetermined electrode, to make the strength of each of said quasi-electrostatic fields generated at said distances respectively corresponding to each of the frequencies become a predetermined field strength~~, and

outputting a combined result of each of said voltages after [[the]] said adjustment.

13. (Currently Amended) The measuring method according to claim 11, wherein

generating said quasi-electrostatic fields ~~field generating step~~ comprises ~~output adjusting step~~ adjusting ~~outputs of each voltage~~ a plurality of voltages output to a predetermined electrode, so as to adjust a field strength of each of said quasi-electrostatic fields to a predetermined field strength, said plurality of voltages corresponding to ~~each of~~ said frequencies ~~to a predetermined electrode, to make the strength of each of said quasi-electrostatic fields generated at said distances respectively corresponding to each of the frequencies become a predetermined field strength~~.

14. (Currently Amended) A measuring apparatus comprising:

quasi-electrostatic field detecting means for detecting potential changes caused by biological reactions inside a living body; and

extracting means for extracting one of said potential changes caused by predetermined one of said biological reactions from said potential changes detected by said quasi-electrostatic field detecting means.

15. (Currently Amended) A measuring method comprising:

~~quasi-electrostatic field detecting step~~ detecting potential changes caused by biological reactions inside a living body; and

~~extracting step~~ extracting one of said potential ~~change~~ changes caused by predetermined one of said biological reactions from said potential changes detected in said quasi-electrostatic field detecting step.